

ABSTRACT OF THE DISCLOSURE

In a voltage generating apparatus, a slow or rapid
discharging amplifier is connected between an input terminal
5 and an output terminal, and a rapid or slow charging amplifier
is connected between the input terminal and the output
terminal. An offset voltage generating element is connected
between the input terminal and one of the slow or rapid
discharging amplifier and the rapid or slow charging amplifier,
10 so that an input voltage applied to the slow or rapid
discharging amplifier is higher than an input voltage applied
to the rapid or slow charging amplifier.